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| UTILITY |
|--------------------|
| PATENT APPLICATION |
| TRANSMITTAL |

3123-516/MAX-019AUS Attorney Docket No. Ros Shao First Inventor SYMBOL-LEVEL SOFT OUTPUT VITERBI ALGORITHM (SOVA) AND A SIMPLIFICATION ON SOVA

Express Mail Label No EU940041263US

| (Only for new nonprovisional applications under 37 CFR 1.33(b)) Express Iviali Label IVO. | | | | | | |
|---|---|------------------------|--|-----------------------------|-------------------------|--|
| APPLICA | ATION ELEMENTS | ADDRES | | missioner for I Box 1450 | Patents 28977 | |
| See MPEP chapter 600 con | cerning utility patent application content | | | ndria, VA 223 | 13-1450 | |
| Fee Transmittal F | form (e.g., PTO/SB/17) | 7. CI | D-ROM or CD-R in | duplicate, larg | | |
| 1. (Submit an original and a | duplicate for fee processing) | | omputer Program (| | | |
| 2. See 37 CFR 1.27 | | | le and/or Amino Ad able, all necessary | | Submission | |
| 3. Specification (preferred arrangement) | [Total Pages 24]] nt set forth below) | · | Computer Readable | • | | |
| | e of the invention | b. Specif | fication Sequence | Listing on: | | |
| - Cross Referenc - Statement Reg | ce to Related Applications arding Fed sponsored R & D | i. | ☐ CD-ROM or | · CD-R (2 copie | es); or | |
| | equence listing, a table, | i i. | paper | | | |
| or a computer properties of a computer properties. | program listing appendix | c. 🗍 S | Statements verifyin | og identity of at | ove onies | |
| | of the Invention | | | | | |
| - Brief Description | on of the Drawings (if filed) | | OMPANYING A | | | |
| - Detailed Descr | iption | 9. 🗶 A | ssignment Papers | (cover sheet 8 | document(s)) | |
| Claim(s)Abstract of the | Disclosure | 1101 | 37 CFR 3.73(b) Sta when there is an a | | Power of Attorney | |
| 4. X Drawing(s) (35 L | J.S.C. 113) Total Sheets 10 | ` | English Translation | • , | | |
| 5. Oath or Declaration/Power | | | nformation Disclos | | Copies of IDS Citations | |
| - | uted (original or copy) | ′ I 💳 🤋 | Statement (IDS)/PT Preliminary Amend | | — Citations | |
| Copy from a | a prior application (37 CFR 1.63 (d)) ation/divisional with Box 18 completed) | | Return Receipt Pos Should be specifica | | 503) | |
| <u>`</u> | ION OF INVENTOR(S) | , | Certified Copy of Prifer foreign priority is | • | nt(s) | |
| | atement attached deleting inventor(s) the prior application, see 37 CFR | I — - | | | | |
| | and 1.33(b). | (E | Request and Certifi (b)(2)(B)(i). Applica | nt must attach | form PTO/SB/35 | |
| 6. Application Data | Sheet. See 37 CFR 1.76 | 17. 🗶 0 | or its equivalent. A | pplication tit | le page | |
| ., | | | | | | |
| 18. If a CONTINUING APPL or in an Application Data Sho | ICATION, check appropriate box, and se | ipply the requisite in | nformation below a | and in a prelimi | nary amendment, | |
| | | | | | | |
| Continuation | Divisional Continuation-in-part (Cli | | application No.: | | | |
| Prior application information: | Examiner | • | Art Unit: | | | |
| | IONAL APPS only: The entire disclosure o f the disclosure of the accompanying cont | | | | | |
| | relied upon when a portion has been inad | | | | • | |
| | 19. CORRESPON | DENCE ADDRESS | <u> </u> | · | | |
| Customer Number or Bar C | ode Label 022494 (Insert Customer No. or Attach | bar code label here) | or | Correspondence ad | ddress below | |
| Name | Cathy L. Peterson | | | | | |
| | Daly, Crowley & Mofford, LLP | | | <u>-</u> | | |
| Address | 275 Turnpike Street, Suite 101 | | | | | |
| City | Canton | State MA | | Zip Code | 02021-2354 | |
| Country | US 7 | elephone 781.4 | 401.9988 ext. 27 | Fax | 781-401-9966 | |
| Name (Print/Type) | Cathy L. P ters n | Registration | on No. (Attorney) | (Agent) 4 | 1,249 | |
| 7 | Cathy h. Psi | | | | 102/02 | |
| Signature | I UTTILU K. P.L. | 1/V/X/4 | | Date /0 | 107/03 | |

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PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
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| FEE | TR | AN | SM | IT | ΓAL |
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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

1,496 TOTAL AMOUNT OF PAYMENT (\$)

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|-----------------------------|--|-------|--|--|--|
| Compl t if Kn wn | | | | | |
| Application Number | Not Yet Assigned | | | | |
| Filing Date | Herewith | | | | |
| First Named Inventor | Rose Shao | | | | |
| Examiner Name | Not Yet Assigned | | | | |
| Art Unit | Not Yet Assigned | | | | |
| Attorney Docket No. | 3123-516/MAX-019AUS | | | | |

| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | |
|---|-----------------------------|-------------|-------------|-------------|--|----------|
| Check Credit card Money Other None 3. ADDITIONAL FEES | | | | | | |
| Order Order | Large Entity Small Entity | | | | | |
| Deposit 50.0945 | | Fee (\$) | Fee Code | Fee (\$) | Fee Description | Fee Paid |
| Account Number | 1051 | 130 | 2051 | | Surcharge - late filing fee or oath | |
| Deposit Account Daly, Crowley & Mofford, LLP | 1052 | 50 | 2052 | | Surcharge - late provisional filing fee or cover sheet | |
| Name The Director is authorized to: (check all that apply) | 1053 | 130 | 1053 | 130 | Non-English specification | <u> </u> |
| Charge fee(s) indicated below Credit any overpayments | 1812 2 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | |
| Charge any additional fee(s) or any underpayment of fee(s) | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | 1805 1 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| | 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| FEE CALCULATION | 1252 | 420 | 2252 | 210 | Extension for reply within second month | |
| 1. BASIC FILING FEE Large Entity Small Entity | 1253 | 950 | 2253 | 475 | Extension for reply within third month | |
| Fee Fee Fee Fee Description Fee Paid | 1254 1 | 1,480 | 2254 | 740 | Extension for reply within fourth month | |
| Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee | 1255 2 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | |
| 1001 770 2001 365 Offinity filling fee 770 | 1401 | 330 | 2401 | 165 | Notice of Appeal | |
| 1003 530 2003 265 Plant filing fee | 1402 | 330 | 2402 | | Filing a brief in support of an appeal | |
| 1004 770 2004 385 Reissue filing fee | 1403 | 290 | 2403 | 145 | Request for oral hearing | |
| 1005 160 2005 80 Provisional filing fee | 1451 1 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| SUBTOTAL (1) (\$) 770 | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| | 1453 1 | 1,330 | 2453 | 665 | Petition to revive - unintentional | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1501 1 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | |
| Extra Claims below Fee Paid | 1502 | 480 | 2502 | 240 | Design issue fee | |
| Total Claims 39 -20** = 19 x 18 = 342 Independent 7 20** 4 x 86 344 | 1503 | 640 | 2503 | 320 | Plant issue fee . | |
| Claims 7 -3" = 4 X 00 = 344 | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| Multiple Dependent | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| Large Entity Small Entity | 1806 | 180 | 1806 | | Submission of Information Disclosure Stmt | |
| Fee | 8021 | 40 | 8021 | ا 40 | Recording each patent assignment per property (times number of properties) | 40 |
| 1202 | 1809 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1203 290 2203 145 Multiple dependent claim, if not paid | 1810 | 770 | 2810 | 385 | For each additional invention to be | |
| 1204 86 2204 43 ** Reissue independent claims over original patent | 1801 | 770 | 2801 | 385 | examined (37 CFR 1.129(b)) Request for Continued Examination (RCE) | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 | 900 | 1802 | 900 | | |
| SUBTOTAL (2) (\$) 696 | Other fe | ee (sp | ecify) _ | | | |
| SUBTOTAL (2) (\$) 686 | *Reduc | ced by | Basic F | Filing Fe | ee Paid SUBTOTAL (3) (\$) | 40 |

| SUBMITTED BY | | | | | (Complete (if applicable)) | | |
|-------------------|-------------------|-----------------------------------|--------|-----------|----------------------------|--|--|
| Name (Print/Type) | Cathy L. Peterson | Registration No. (Attorney/Agent) | 41,249 | Telephone | 781.401.9988 ext. 27 | | |
| Signature | Cathy h. Peterson | | | Date | 10/07/03 | | |

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

| First Named Inventor | | Rose Shao | |
|----------------------|--------------------------------|---|---|
| Title | SYMBOL-LEVEL (SOVA) AND A S | SOFT OUTPUT VITERBI ALGORITHM IMPLIFICATION ON SOVA | - |
| Atty [| Docket Number | 3123-516/MAX-019AUS | |

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

October 7, 2003 Date

Cathy L. Peterson

Signature

athy L. Peterson

Typed or printed name Reg. No. 41,249

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

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